

Work Order ID 155134***155134***

Page 1

Monday, January 09, 2017 11:28:27 AM

Item ID: D350-604-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: URF 16-567 Stop ***NS2***
Item Name: Rear Locker Extender
Start Date: 6/1/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 7/3/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: DAS 21 9-89 Date: JAN 12 2017 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D2273	LUR M <i>17/01/12</i>								
D350-604-041	CUR <i>17/01/12</i>								
100	Document Control	0.00				DAS 28 9-89		<u>JUL 03 2017</u>	
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile and create labels per PPP D350-604-041 CHG009 <i>CH6010</i> DAS 21 9-89 <i>see attachment</i>								
110	PURCHASING	0.00				1		<u>JAN 17 2017</u>	DAS 13 9-89
110	Purchasing								
Purchasing	Memo	0.00							
	Issue P/O: <i>34973</i>								
	Description: D350-604-041 Rear locker extender.								
	Manufacture as per dwg D2273								
	Supplier: FDC Composites Inc.								
	Certification of Conformity and process sheet required.								
	EXTREME CARE MUST BE TAKEN TO PROTECT THE SURFACES OF THE REAR LOCKER. THE SURFACES MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS.								
	MUST BE WELL PACKAGE, IF NOT IT WILL BE REFUSE								

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By					
				Lead hand / Supervisor Approval Verification					
				QC / QA Coordinator Approval					

Root Cause				FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐		
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐		
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐		
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐		
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐		
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐		
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐		
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐		
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐		
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐		
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____					
Misidentified ☐	Past Due ☐						

Work Order ID 155134***155134***

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Monday, January 09, 2017 11:28:27 AM

Item ID: D350-604-041
Revision ID: URF 16-567
Item Name: Rear Locker Extender

Accept

N900040100

Setup Start ***NS1***
Stop ***NS2***

Start Date: 6/1/2017 Start Qty: 1.00 ***1***
Required Date: 7/3/2017 Req'd Qty: 1.00 ***1***

Cust Item ID:
Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***
Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 *120* Packaging Packaging	Receive & Inspect for Damage & Mat'l Certs Packaging Memo Ensure a copy of Certification of Conformity and process sheet from Carbon-by-Design is attached. ***DO NOT STACK REAR LOCKERS OR ANYTHING ON THEM***	0.00 0.00							1X SP17-6-23
130 *130* QC Quality Control	QC6- Inspect dimensions to drawing Memo Check hole locations to template. DT 8824 Check process sheet and audit.	0.00 0.00							① 17.0629 DAS 9 9-89
140 *140* Small Fab Small Fab	 Memo 1- INSTALL DECALS AS PER DWG	0.00 0.05							DAS 28 9-89 JUL 03 2017

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By _____					
				Lead hand / Supervisor Approval Verification _____					
				QC / QA Coordinator Approval _____					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____ _____ _____							
Misidentified ☐	Past Due ☐								

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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	QC5- Inspect part completeness to step on W/O	0.00							
150									
QC	Memo	0.00							
Quality Control									
155	Pick Kit	0.00							
155									
Packaging	Memo	0.00							
Packaging	***DO NOT STACK REAR LOCKERS OR ANYTHING ON THEM***								
158	QC4- 100% Inspect kits for completeness	0.00							
158									
QC	Memo	0.01							
Quality Control									

DAS
27
9-89
JUL 03 2017DAS
27
9-89
JUL 03 2017DAS
28
9-89
JUL 03 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____							
Misidentified	☐	Past Due	☐								

Work Order ID 155134***155134***

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Required Date: 7/3/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160		0.00							
160	Packaging								
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D350-604-041								
	Location: _____								
	PPP Rev: <u>Fg106</u>								
170	QC21- Final Inspection - Work Order Release	0.00							
170									
QC	Memo	0.02							
Quality Control									

DAS
28
9-89

JUL 03 2017

17/7/4

DAS
21
9-89

JUL 03 2017

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Monday, January 09, 2017 11:28:31 AM

155134

D350-604-041

Required Date: 7/3/2017

Required Qty: 1.00

Comments: IPP Rev:Q03.12.01ReformatKJ/RF IPP REV:R
12.02.07 AS PER ECN12-521 DD verf:JLM IPP REV:S 12.04.04
AS PER DWG REV.B DD VERF:EC IPP REV:T 13.09.12 as per
CHG006/ECN13-616 DDVERF:JLM IPP REV:U 14.05.28 as per
chg008/ecn14-563 DD verf:JLM IPP REV:V 15.03.13 remove cam lock and
washerDD verf:JLM IPP REV:W 15.03.25 ECN15-545 DD VERF:JLM

[illegible]

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Monday, January 09, 2017 11:28:31 AM

Page 2

Work Order ID: 155134

155134

Parent Item: D350-604-041

D350-604-041

Parent Item Name: Rear Locker Extender

Start Date: 6/1/2017

Required Date: 7/3/2017

Start Qty: 1.00

Required Qty: 1.00

D5062-041

Manufactured No

155

Each

16.0000

1

1

D5062-041

Bracket Assembly

DAS
27
9-89

Location

Loc Qty

Loc Code

ST147

16

145920

16

DAS
28
9-89

JUL 03 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
		OTHER : _____							

TABLE 1

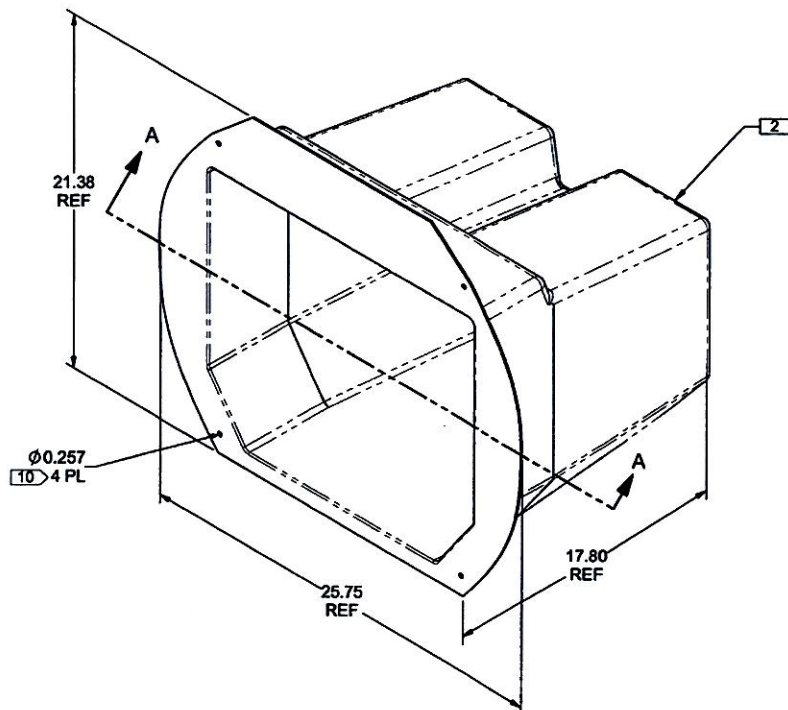
POSITION	MATERIALS
1	TOOL SURFACE
2	GELCOAT
3	3/4 oz CHOPPED STRAND MAT
4	7725 FIBER GLASS
5	7725 FIBER GLASS
9	7725 FIBER GLASS
10	PRIMER

TABLE 2

POSITION	MATERIALS
1	TOOL SURFACE
2	GELCOAT
3	3/4 oz CHOPPED STRAND MAT
4	7725 FIBER GLASS
5	7725 FIBER GLASS
6	7725 FIBER GLASS
7	7725 FIBER GLASS
8	7725 FIBER GLASS
9	7725 FIBER GLASS
10	PRIMER

NOTES:

- 1) MATERIAL: SEE TABLE 3
 2) FINISH: SEE TABLES 1, 2, & 3
 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
 7) WEIGHT: 5.5-7.5 lbs
 8) LAMINATE PER DART QSI 006. LAMINATION SCHEDULE PER THIS DRAWING
 9) LAYUP USING DT8871 MOLD. WET LAYUP WITH BAG/VACUUM
 10) TRIM & DRILL PER DT9905. OPEN HOLES TO Ø0.257
 11) CONSTRUCTION: SEE TABLES 1 & 2
 12) MATTE TO HOLD DOWN CORNERS AS REQUIRED



D2273 REAR LOCKER EXTENDER

TABLE 3

MATERIAL USED	DESCRIPTION
GELCOAT	55X3535 WHITE GELCOAT
FIBER GLASS MAT	OWENS CORNING 3/4 oz CHOPPED STRAND MAT
FIBER GLASS CLOTH	HEXCEL 7725 FIBER GLASS
RESIN SYSTEM	DION 7704
PRIMER	TEMPO 4500-PB-23G (GREEN)

SHOP COPY
 RETURN TO
 ENGINEERING
 UNCONTROLLED COPY
 SUBJECT TO AMENDMENT
 WITHOUT NOTICE
 WORK ORDER
 NO. 155134 MJS
17-01-12

SEE TABLE 1

SEE TABLE 2

SECTION A-A

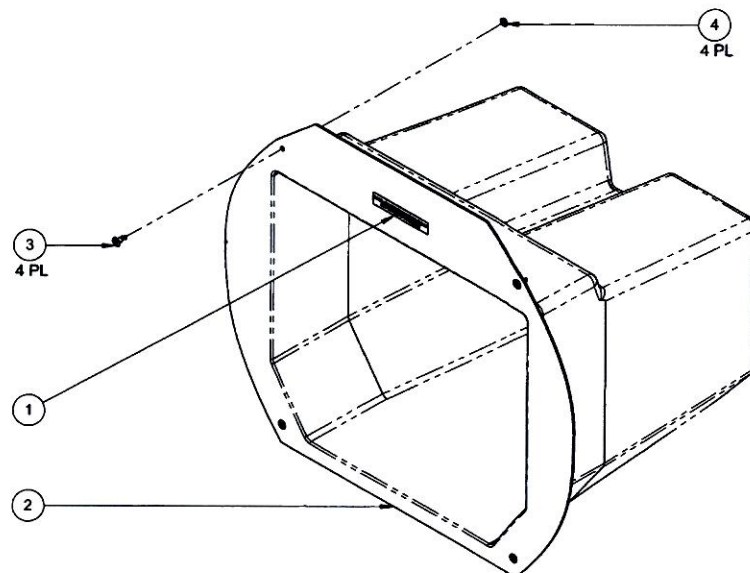
M	CHANGE GELCOAT TO 55X3535 WHITE GELCOAT, REMOVE PAINT FINISH OPTION (NOTE 2)	DB	16.05.19
L	ADD PAINT OPTION (NCR 15-5408)	CP	15.10.19
K	LAYUP AND MATL PER FDC COMPOSITES PROCESS	CP	15.03.12
J	CHANGED GELCOAT TO 4314-001 DURA FR WHITE	ML	13.12.10
I	CHANGE GELCOAT TO POLYCOR 2330PAWK745	SFM	13.08.13
H	CHANGE MATERIAL & MANUFACTURING PROCESS	DC	13.03.15
G	ADD MANUFACTURING OPTION B, ZN BS-1	DC	12.08.08
F	PRIMER LE 3404-S&E 1175-S WAS 1144-S, ZN A8-1	DC	12.02.27
E	CHANGED SURFACE FINISH FROM 944W005 GELCOAT TO 2330PAWK745 GELCOAT, ZN A7-1. UPDATED DWG TO CURRENT STANDARDS.	DC	12.02.02
D	REMOVE EPOCAST, ADD SURFACE FINISH	CP	02.04.01
C	CLARIFY MATERIAL, LAYUP, AND TOOLING	RF	02.01.30
B	RE-DRAWN	MM	96.05.27
REV.	DESCRIPTION	BY	DATE

DESIGN	JB	DART AEROSPACE LTD	
DRAWN	DB	HAWKESBURY, ONTARIO, CANADA	
CHECKED	ML	DRAWING NO.	REV. M
MFG. APPR.	DD	D2273	SHEET 1 OF 1
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	350 REAR LOCKER EXTENDER	NTS
DATE	16.05.19	COPYRIGHT © 1996 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

RELEASED
 2017-01-11
 ECU 17-501

APPROVED

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
	X	D350-604-041	REAR LOCKER EXTENDER ASSEMBLY
1	1	D2268	PLACARD
2	1	D2273	REAR LOCKER EXTENDER
3	4	2600-6	CAMLOCK STUD
4	4	2600-LW	RETAINING WASHER



D350-604-041 REAR LOCKER EXTENDER ASSEMBLY

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 5.5 to 7.5 lbs
- 8) INSTALL D2268 PLACARD IN LOCATION SHOWN, CENTERED ON FLANGE

C	REMOVE D2728-1, D2729-1 DECALS (ZN C5-1) REVISED RELATED NOTES, UPDATED PART WEIGHT	ML	13.12.16
B	INCORPORATE DSI 9470 (ZN D7-1), UPDATE DWG TO CURRENT STANDARDS, ADD D2728-1 PLACARD AND ORIENTATION NOTE (ZN C3-1), ADD D2729-1 (ZN C5-1).	DC	12.02.07
A	NEW ISSUE	CP	02.04.01
REV.	DESCRIPTION	BY	DATE
DESIGN	DW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	ML		
CHECKED	AP	DRAWING NO.	REV. C
MFG. APPR.	JLM	D350-604-041	SHEET 1 OF 1
APPROVED	MP	TITLE	SCALE
DE APPR.	DS	RLE ASSY	NTS
DATE	14.01.02	COPYRIGHT © 2002 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

D350-604-041

REAR LOCKER EXTENDER



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO34973

Purchase Order Date 1/17/2017 9:02:37 AM
PO Print Date 1/31/2017

Page Number 1 of 3

Order From : VC-FDC01
FDC COMPOSITES INC.
45 CHEMIN DE L'AEROPORT
LOCAL 26
ST-JEAN-SUR-RICHELIEU, QUEBEC J3B 7B5

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

REVISED \$

Contact Name
Vendor Phone 450-357-1344 ext303
Ship To Contact
Ship To Phone
Ship Via: Journey Freight collect
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	D350-604-041P PO REVISED AS PER QUOTE # 1199 AS PER DWG D2273 REV. M / D350-604-041 REV. C BI55133 PLEASE NOTE REARLOCKER UNDER NEW REV. M	Rear Locker Extender	6/5/2017 Yes 6/5/2017		1.00 Each	\$705.00	\$705.00
Line Total:							\$705.00
2	D350-604-041P AS PER DWG D2273 REV. M / D350-604-041 REV. C BI55134 PLEASE NOTE REARLOCKER UNDER NEW REV. M	Rear Locker Extender	6/5/2017 Yes 6/5/2017		1.00 Each	\$705.00	\$705.00
Line Total:							\$705.00

PO Instructions: NOTE: NO BILLING PRIOR TO SHIPPING

Note:

1/31/2017

#118

FDC Composites inc.
45, Chemin de L'Aéroport
Local 26
Saint-Jean-sur-Richelieu (QC)
J3B 7B5
Tel.: 450 357-1344

Shipping Order

15/06/2017

Order : 2640
Reference : PO 34973/1-5

Customer: Dart

DART AEROSPACE
1270 Aberdeen Street
Hawksbury, ON
K6A 1K7

Ship To
DART AEROSPACE LTD
1270 Aberdeen Street
Hawksbury, ON
K6A 1K7
Tel.: 1 613 632-9577

Item No.	Description	Qty	Qty. Delivere	B/O Qty
D350-604-041P	REAR LOCKER EXTENDER PO item: 34973/1 Lot: 2017-02-22 As per DWG.D2273 Rev. M B155133	1		
D350-604-041P	REAR LOCKER EXTENDER PO item: 34973/2 Lot: 2017-02-27 As per DWG.D2273 Rev. M B155134	1		
D350-604-041P	REAR LOCKER EXTENDER PO item: 34973/3 Lot: 2017-03-02 As per DWG.D2273 Rev. M B155135	1		
D350-604-041P	REAR LOCKER EXTENDER PO item: 34973/4 Lot: 2017-03-06 As per DWG.D2273 Rev. M B155136	1		
D350-604-041P	REAR LOCKER EXTENDER PO item: 34973/5 Lot: 2017-03-08 As per DWG.D2273 Rev. M B155137	1		

DAS
9
9-89

Shipping : _____
Package No : _____

Ref. : _____

Merchandise Received: _____



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CERTIFICATE of CONFORMITY

Customer Name: Dart Aerospace.

Customer P/O Number: 34973

Revision: NC

<u>PO Item</u>	<u>Qty</u>	<u>Part number</u>	<u>Dwg number</u>	<u>Description</u>	<u>Dart ID</u>	<u>FDC ID</u>	<u>Lot</u>
1	1	D350-604-041P	D2273 Rev M	350 Rear Locker Extender	B155133	DAE001-111	2017-02-22
2 ✓	1 ✓	D350-604-041P ✓	D2273 Rev M	350 Rear Locker Extender	B155134 ✓	DAE001-118 ✓	2017-02-27 ✓
3	1	D350-604-041P	D2273 Rev M	350 Rear Locker Extender	B155135	DAE001-126	2017-03-02
4	1	D350-604-041P	D2273 Rev M	350 Rear Locker Extender	B155136	DAE001-128	2017-03-06
5	1	D350-604-041P	D2273 Rev M	350 Rear Locker Extender	B155137	DAE001-135	2017-03-08

I hereby certify that the workmanship, material and the processes used in the manufacture of the above part(s) supplied are in accordance with the requirements of the applicable Purchase Order.

Signature: Marjorie G
Marjorie Geoffrion, Quality Inspector

Date: 2017-06-16



Gamme de Fabrication

# LOT	2017-02-20 D27
# SÉRIE(ID)	DAE001-118

Nom de Gamme :	Rear locker extender - DART
# de Gamme (et rev.) :	DAE001 Rev. E
Nom pièce - Client :	350 Rear locker extender - DART AEROSPACE
# de Dessins (et rev.) :	D2273 Rev. J

ID: BISS134 / 2

Fiche suiveuse

PLAGE (ÉTAPE)	DESCRIPTION GÉNÉRALE	DATE (NR) SORTIE
[10-60]	Préparation	Moule, Espace de travail, Matière premières, Consommables #23 22 FEV 2017
[70-90]	Finition/Peinture	Appliquer Gel coat, Inspecter #3 27 FEV 2017
[100-150]	Laminage	Laminer, Démouler, Inspecter #19 #23 27 FEV 2017
[160-200]	Usinage	Percer, Découper, Ébavurer, Inspecter, Sabler #30 9 MAR 2017
[210-230]	Finition/Peinture	Primer, Inspection #3 28 MAR 2017
240	Expédition	Emballer, Expédier #8 15 JUIN 2017

Gamme préparé par :

Guillaume G. Jasmin

Gamme révisée par :

Pascal Seguin

Gamme vérifiée par
(Chefs d'équipe) :

Gamme approuvée par :

Date d'émission :

2017-02-20

Approbation Qualité

Avant de produire le CofC,
toutes les étapes et les
informations requises des
gammes subséquentes
reliées à ce produit ont été
complétées et remplies



Informations à remplir :

Cases grises pâles

Inspection :

Cases grises foncées

Matières premières

Matière (nom et description)	Quantité	Date d'expiration	Identification ou numéro de lot
Résine	102 8612	2017-05-12	Dion 7704
Norox (Résine)	41 049	2017-08-01	MEKP-9
Norox (Gel coat)	41 049	2017-08-01	MEKP-9
Gel coat blanc	702-284	2017-03-02	55X-3535
Mat ¾ oz/pi²	5051100174-1	N/A	¾ oz Chopped Strand Mat (Owens Corning Or Equivalent)
Fibre de verre 7725	4294874	N/A	Hexcel 7725 Fiber Glass
Apprêt (Primer) (Vert)	18316	2018-05-01	Tempo 4500-PB-23G (Vert)
Durcisseur pour apprêt (hardener)	18316	2018-05-01	Tempo 4500-C-23
Attache mécanique (Camloc)	1745658	N/A	2600-5
Rondelle de retenue pour Camloc	508980	N/A	2600-LW

Matériel	Matériel	Matériel
Moule : MOU306 ou MOU309	FMS	Sarrau
Pompe à vide	55NC	Lunettes de sécurité
Jig de découpe et perçage : GAB350	Peel ply	Soulier de protection
Jig de finition et d'inspection : GAB355	Film perforé	Gants
	Bleeder breather	Masques à cartouches
Pince pour installer Camloc : OUT951	Bag big blue	
Outil pour installer rondelle de retenue : OUT952	Ruban scellant (Dum Dum)	

Annexe 1
Formulaire de résine (RES-DAR001)

MPS	Exemples
MPS-300-93-31-007-NC	Démoulage 55NC
MPS-300-93-31-058-A	Composite part inspection
MPS-300-93-31-020-B	Edge finish after trimming
MPS-300-93-31-097-NC	Epoxy - Polyamide primer
MPS-300-93-31-084-NC	Protection et entreposage des pièces

Suivi des révisions

Revisé	Description	Date	Revisé par
A	Révision d'une OP inspection, Ajout nouveaux moules et retrait d'un type de primer	2015-03-04	Guillaume G.Jasmin
B	Ajout des conformateurs, du gabarit GAB355, de l'installation des camlocs, inspection du poids et identification finale	2015-03-25	Guillaume G.Jasmin
C	Mise à jour de la case approbation qualité page 1	2015-04-02	Guillaume G.Jasmin

Ordre de fabrication	Description	Références, outils et équipements	Date et initiales
<u>Section A : PRÉPARATION</u>			
10	<u>Remplir les informations requises sur la première page (cases grises pâles)</u> - Demander au coordonnateur de production (ID) - Inscrire les heures et les dates d'entrée et de sortie de département	#21 23 FEB. 2017	#23 22 FEB. 2017
20	<u>Découper la fibre et les périssables (Peel ply, sac étanche...) selon l'ANNEXE 1</u> - ACHEMINER et REMPLIR la section « Matière premières » pour : - Fibre de verre 7725 - Mat ¾ oz	Annexe 1 23 FEB. 2017	#23 22 FEB. 2017
40	<u>Préparer la résine selon RES-DAR001 (Gamme de formulation de résine)</u> ACHEMINER et REMPLIR la section « Matière premières » pour : - Résine - Norox	RES-DAR001	#28 27 FEB. 2017
50	PRÉPARER le moule - Cochez le moule utilisé : MOU306 ☒ , MOU309 ☐ ☒ Nettoyer et traiter le moule ☒ Poser le Masking tape <u>Si nécessaire, traiter le moule au 55NC</u> Faire le test de pelage, s'il ne passe pas, appliquer une couche de 55NC et refaire le test	Annexe 1 MOU306 ou MOU309 MPS-300-93-31.007	#19 27 FEB. 2017

PRÉPARER l'espace de travail (pendant l'application du gel coat)

- ☒ Vérifier et préparer la pompe
- ☒ Préparer et distribuer les outils
- ☒ Protéger l'environnement de travail (tables, plancher, etc.)
- ☒ Vêtir l'équipement de protection personnel
- ☒ Partir la ventilation
- ☒ Vérifier l'ordre et la présence de tous les plis de fibre et des morceaux de noyau dans le sac

60

Position	Matériel	Initial employé
10F	¾ oz Chopped strand MAT	nf
20F	7725 Fibre de verre	nf
30F	7725 Fibre de verre	nf
40R	7725 Fibre de verre	nf
50C	Noyau DIAB F40 1/8po	nf
60R	7725 Fibre de verre	nf
70R	7725 Fibre de verre	nf
80F	7725 Fibre de verre	nf

Section B : APPLICATION GEL COAT

70

(GEL COAT) : ACHEMINER et REMPLIR la section « Matière premières » pour :

- Gel coat

#28

27 FEV. 2017

80

APPLIQUER le Gel coat (18 - 22 mils)

Heure d'application

11 h 00 min

Annexe
1

#3

27 FEV. 2017

90

Contrôle Inspection Inspecteur Qualité:

Contrôle du gel coat : 18 - 22 mils

Contrôle de l'application du gel coat : uniforme et esthétique.

Inspecteur

Section C : LAMINAGE

100	Donner l'approbation (Inspecteur Qualité ou Chef d'équipe): ☐ Donner l'approbation pour que la pièce puisse être laminée (le gel coat est à l'extérieur ou « tack free »)	Inspecteur T-1 Qualité																														
110	LAMINER <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="width: 30%;">Position</th> <th style="width: 70%;">Matériel</th> </tr> </thead> <tbody> <tr><td>10F</td><td>¾ oz Chopped strand MAT</td></tr> <tr><td>20F</td><td>7725 Fibre de verre</td></tr> <tr><td>30F</td><td>7725 Fibre de verre</td></tr> <tr><td>40R</td><td>7725 Fibre de verre</td></tr> <tr><td>60R</td><td>7725 Fibre de verre</td></tr> <tr><td>70R</td><td>7725 Fibre de verre</td></tr> <tr><td>80F</td><td>7725 Fibre de verre</td></tr> </tbody> </table> CONSOMMABLE <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tbody> <tr><td>10F</td><td>Peel Ply</td></tr> <tr><td>20F</td><td>Release film non perforé</td></tr> <tr><td>30F</td><td>Bleeder / Breather</td></tr> <tr><td>50F</td><td>Bagging bleu</td></tr> </tbody> </table> ☐ S'assurer que tous les plis dans le tableau ont été laminés ☐ S'assurer que tous les conformateurs (Qte 9) sont en place par-dessus le Bleeder/Breather <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tbody> <tr> <td style="width: 40%;">Heure début laminage</td> <td style="width: 60%; text-align: center;">11 h / 5 min</td> </tr> <tr> <td>Heure mise sous-vide (sac scellé)</td> <td style="text-align: center;">12 h / 5 min</td> </tr> <tr> <td>Intensité du vide (25 inHg)</td> <td style="text-align: center;">25 inHg</td> </tr> </tbody> </table>	Position	Matériel	10F	¾ oz Chopped strand MAT	20F	7725 Fibre de verre	30F	7725 Fibre de verre	40R	7725 Fibre de verre	60R	7725 Fibre de verre	70R	7725 Fibre de verre	80F	7725 Fibre de verre	10F	Peel Ply	20F	Release film non perforé	30F	Bleeder / Breather	50F	Bagging bleu	Heure début laminage	11 h / 5 min	Heure mise sous-vide (sac scellé)	12 h / 5 min	Intensité du vide (25 inHg)	25 inHg	Annexe 1 GAB356 à GAB364 (Qte 9)
Position	Matériel																															
10F	¾ oz Chopped strand MAT																															
20F	7725 Fibre de verre																															
30F	7725 Fibre de verre																															
40R	7725 Fibre de verre																															
60R	7725 Fibre de verre																															
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10F	Peel Ply																															
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30F	Bleeder / Breather																															
50F	Bagging bleu																															
Heure début laminage	11 h / 5 min																															
Heure mise sous-vide (sac scellé)	12 h / 5 min																															
Intensité du vide (25 inHg)	25 inHg																															
120	LAISSER POLYMÉRISER la pièce sous vide pendant 2h	#19 #23 #21 #26 N/A																														

130	DÉMOULER et IDENTIFIER la pièce ☒ Brancher le système d'air comprimé ☒ Ecrire le numéro de pièce et la date sur un collant – # de lot (date de début) – # de série ID Ex : (AAAAMMJJ) – (DAE001-XXX) ☐ Découper une pellicule de plastique protecteur bleu et la coller sur le rebord et à l'intérieur de la partie blanche (Gel coat) (Voir Annexe 1) ☒ Placer la pièce sur la table d'inspection	Annexe 1	#26 27 MAR 2017
140	Point d'inspection (inspecteur qualité) : ☒ Vérifier la présence de surplus de résine ☒ Vérifier la présence de bulles d'air ☒ Vérifier la présence de zone sèche ☒ Vérifier la présence de plis dans la fibre	MPS-300-93-31-054	Inspecteur Qualité 27 MAR 2017
150	Nettoyer le moule - Enlever la résine durcie tout le tour du moule avec une spatule en plastique pour ne pas endommager le moule Si nécessaire, nettoyer le moule avec un chiffon légèrement humecté de nettoyant à moule (PMC) NE PAS TROP APPLIQUER DE "PMC"	Spatule en plastique	#26 27 MAR 2017

Section D : USINAGE

160	PERÇAGE ET DÉCOUPE : INSTALLER le Gabarit de perçage et découpe PERÇER la pièce - Perçer 4 trous avec un forêt F (Dia. .257 po) au travers des canons de perçage du Gabarit GAB350 DÉCOUPER la pièce - Retirer le Gabarit de découpe une fois terminé	GAB350 Annexe 1 Forêt F (Dia. .257 po)	#30 9 MAR 2017
170	SABLAGE : INSTALLER le Gabarit de finition et d'inspection GAB355 SABLER la pièce jusqu'à arriver à la dimension du Gabarit GAB355 (voir Annexe 1) RETIRER le Gabarit	GAB355 Annexe 1 MPS-300-93-31-020	N/A

	ÉBAVURER les arêtes vives		
180	Contrôle d'inspection (inspecteur qualité): ✓ Réviser les bords (rebords) afin de s'assurer que le Gel coat ne craque pas (voir Annexe 1 pour ce test) ✓ Vérifier la conformité de la pièce (Dimensions) selon le no. de dessin et selon le MPS-100-93-31-058	Annexe 1 MPS-100-93-31-058 Inspecteur Qualité T-1 20190316	20190316

190	SABLER légèrement l'extérieur de la pièce Papier 120 à 320 grains	#12 13 MAR 2017	#3 28 MAR 2017
200	NETTOYER les surfaces extérieures		#3 28 MAR 2017

Section E : FINITION/PEINTURE

210	APPLIQUER le primer 2 couches d'environ 10 mils chacune	MPS-300-93-31-097	#3 28 MAR 2017
220	INSTALLER les attaches mécaniques (Camlocs) (Qte 4) (voir Annexe 1) - Utiliser les pinces spécialisées (OUT951) pour insérer les Camlocs dans les trous - Utiliser l'outil spécialisé (OUT952) pour installer les rondelles de retenues	Annexe 1 Pince à Camloc (OUT951)	#19 2 MAI 2017
230	Fin de la pièce Vérification de la finition (panneaux, surface inégale, etc...) ✓ Vérifier s'il y a un panneau de contrôle relié à la pièce ✓ Clammer le carré dans le coin inférieur droit de la première page ✓ Identifier la pièce finale (voir Annexe 1) pour exemple et localisation ✓ Poids de la pièce: 614 (lbs)	Annexe 1 MPS-300-93-31-058	Inspecteur #8 5 JUN 2017

Section F : EXPÉDITION

240	Emballer et expédier	MPS- 300-93- 31-084	#8 JUN 2017
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Work Order ID 155134

Monday, January 09, 2017 11:28:27 AM

155134

Page 1

Item ID: D350-604-041

Accept

N900040100Setup Start ***NS1***

Revision ID: URF 16-567

Item Name: Rear Locker Extender

Stop ***NS2***

Start Date: 6/1/2017 Start Qty: 1.00

1

Cust Item ID:

Required Date: 7/3/2017 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: 21 Date: JAN 12 2017

Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D2273	<i>LUR M 17/01/12</i>								
D350-604-041	<i>CUR 17/01/12</i>								
100	Document Control	0.00				DAS 5 9-89			JUL 03 2017
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile and create labels per PPP D350-604-041 <i>CHG 09</i> <i>CH6010</i> <i>DAS</i> <i>21</i> <i>9-89</i> <i>See attachment</i>								
110	PURCHASING	0.00							
110	PURCHASING								
Purchasing	Memo	0.00							
Purchasing	Issue P/O: <u>34973</u> Description: D350-604-041 Rear locker extender. Manufacture as per dwg D2273 Supplier: FDC Composites Inc. Certification of Conformity and process sheet required.								

JAN 17 2017

EXTREME CARE MUST BE TAKEN TO PROTECT THE SURFACES OF THE REAR LOCKER. THE SURFACES MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS.

MUST BE WELL PACKAGE, IF NOT IT WILL BE REFUSE



Department of Transport

Supplemental Type Certificate

This approval is issued to:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ontario
Canada K6A 1K7

Number: SH90-4

Issue No.: 4

Approval Date: January 31, 1990

Issue Date: February 17, 2012

Responsible Office:

Prairie and Northern

Aircraft/Engine Type or Model:

Eurocopter France AS 350 B, B1, B2, B3, BA, D
Eurocopter France AS 355 E, F, F1, F2, N, NP

Canadian Type Certificate or Equivalent:

H-83 (AS 350 Series); H-87 (AS 355 Series)

Description of Type Design Change:

Installation of Rear-Locker Extender

**Installation/Operating Data,
Required Equipment and Limitations:**

Installation of Rear-Locker Extender must be in accordance with Transport Canada Civil Aviation (TCCA) approved Dart Aerospace Ltd. Installation Drawing D350-604, revision C, dated December 6, 2011 or later TCCA approved revision.

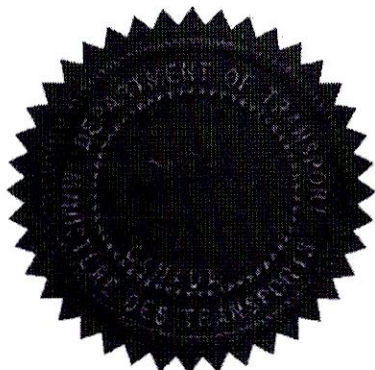
Operation of the Rear-Locker Extender must be in accordance with TCCA approved Dart Aerospace Ltd. Flight Manual Supplement FMS-D350-604, revision B, dated November 15, 2011, or later TCCA approved revision.

Maintenance of the Rear-Locker Extender must be in accordance with TCCA accepted Dart Aerospace Ltd. Instructions for Continued Airworthiness ICA-D350-604, revision 0, dated November 15, 2011, or later TCCA accepted revision.

Definition of Type Design Change: TCCA approved Dart Aerospace Ltd. Master Document List MDL-D350-604, revision A, dated February 2, 2012, or later TCCA approved revision.

Basis of Certification for affected areas: 14 CFR, Part 27 at amendment 27-21.

— End —



Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.

Greg Oucharek
For Minister of Transport

Canada